



Australian Government

AURBTR101 Inspect and service electric power-assisted bicycles

Release: 1

AURBTR101 Inspect and service electric power-assisted bicycles

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to inspect and service electric power-assisted bicycle systems and components. The unit involves preparing for the work, selecting and using specialist tools and equipment, inspecting the bicycle condition, interpreting manufacturer specifications, performing routine maintenance and testing on electric bicycle components, and completing workplace processes and documentation.

The unit applies to those working in the bicycle retail, service and repair industry. Electric power-assisted bicycles are throttle and pedal assist sensor (PAS) bicycles with 250 watts rated power at the wheel.

Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Unit Sector

Bicycle Technical - Electrical and Electronic

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to inspect and service electric power-assisted bicycle	1.1 Determine job requirements from workplace instructions 1.2 Access and interpret manufacturer specifications and workplace procedures 1.3 Select and check tools and equipment for serviceability 1.4 Identify hazards associated with the work and manage risks 1.5 Prepare work area and plan service sequence to avoid damage to bicycle, minimise waste and use time efficiently
2. Inspect bicycle	2.1 Inspect condition of bicycle for faults and worn, non-serviceable or damaged parts according to workplace

ELEMENTS	PERFORMANCE CRITERIA
	procedures 2.2 Identify bicycle components needing repair, replacement or maintenance according to manufacturer specifications 2.3 Report inspection findings, and identify and confirm service options and techniques for required repairs or adjustments
3. Service bicycle	3.1 Carry out routine servicing and maintenance of bicycle according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.2 Carry out post-service testing and operation checks on serviced bicycle according to manufacturer specifications, and make adjustments as required 3.3 Report results and quality issues to authorised personnel as required
4. Complete work processes	4.1 Clean bicycle, conduct final inspection to ensure work meets workplace expectations, and confirm bicycle is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Numeracy	- Completes measurements to test electric power-assisted bicycle against manufacturer specifications - Identifies and calculates electric power-assisted bicycle settings and adjustments.
Oral communication	Asks questions to clarify instructions and requirements.
Problem solving	Identifies technical and operational faults and defects, quality issues and potential problems associated with electric power-assisted bicycles.
Technology	Uses specialist bicycle tools and equipment in line with workplace procedures.

Unit Mapping Information

Supersedes and is equivalent to AURBT R001 Service electric power-assisted bicycles.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>